AMENDED CLAIMS

102. (amended) A compound of formula I

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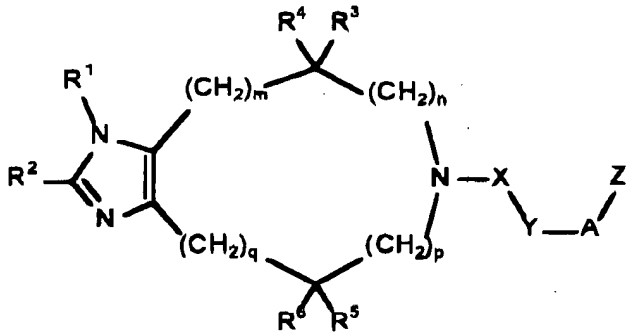

I

wherein

R^1 is hydrogen or a functional group which can be converted to hydrogen *in vivo*, wherein said functional group is selected from the group consisting of acyl, carbamoyl, monoalkylated carbamoyl, dialkylated carbamoyl, alkoxycarbonyl, C_{1-6}alkanoyl, aroyl, C_{1-6}alkylcarbamoyl, di-C_{1-6}alkylcarbamoyl, dialkylaminosulfonyl, C_{1-6}alkoxycarbonyl and 1-(C_{1-6}alkoxy)-C_{1-6}alkyl;

R^2 is hydrogen,

$R^3$and R^4 independently are hydrogen, trifluoromethyl,

C_{1-6}-alkyl optionally substituted with C_{3-8}-cycloalkyl,

aryl optionally substituted with C_{1-6}-alkyl, or

R^3 and R^4, together with the carbon atom to which they are connected together with the carbon atom to which they are connected, form a 3 to 8-membered, saturated or unsaturated, carbocyclic or heterocyclic ring optionally substituted with C_{1-6}-alkyl,

C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino;

R^5 and R^6 are H;

m, n, p are 0, and q is 1;

D1 X is $-CH_2-$, $-C(=O)-$, $-C(=S)-$, $-S(=O)-$, $-S(=O)_2-$, $-C(=N-CN)-$, $-C(=CH-NO_2)-$, $-C(=C(CN)_2)-$, $-C(=CH-CN)-$, or $-C(=N-S(=O)_2R^{11a})-$,

R^{11a} is C_{1-6}-alkyl optionally substituted with

aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino, heteroarylamino or C_{3-8}-cycloalkyl, which are optionally substituted with

C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino,

aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl or heteroarylsulfonyl, which are optionally substituted with

C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino,

Y is a valence bond, -O- or $-N(R^{12})-$,

wherein R^{12} is

hydrogen,

C_{1-6}-alkyl optionally substituted with

aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino, heteroarylamino or C_{3-8}-cycloalkyl, which are optionally substituted with

C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino,

aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl or heteroarylsulfonyl, which are optionally substituted with

C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino, C_{1-6}-alkylsulfonyl optionally substituted with

C_{3-8}-cycloalkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethyl, trifluoromethoxy, aryl, heteroaryl, aroyl, heteroaroyl, arylsulfonyl, arylamino or heteroarylamino;

A is a valence bond or C_{1-8}-alkylene, C_{2-8}-alkenylene or C_{2-8}-alkynylene; and

Z is

Z is C_{1-6}-alkyl, phenyl, naphthyl, thienyl, cyclopentyl, cyclohexyl, cyclohexenyl, oxazolyl, indanyl, isoquinolyl, benzoyl or tetrahydronaphthyl which are optionally substituted with one to three substituents selected from the group consisting of C_{1-6}-alkyl, C_{1-6}-alkoxy, halogen, phenyl, di(C_{1-6}-alkyl)amino, C_{3-8}-cyclopropanecarbonyl, trifluoromethoxy and trifluoromethyl;

~~C_{1-6}-alkyl,~~ C_{2-6}-alkenyl or C_{2-6}-alkynyl, which are optionally substituted with

aryl, arylamino, heteroarylamino, aroyl, heteroaroyl, arylsulfonyl, C_{1-6}-alkylsulfonyl, sulfonylamino, arylthio, heteroarylthio, aryloxy, acylamino, heteroaryl or C_{3-8}-cycloalkyl, which are optionally substituted with

C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, aryl-C_{1-6}-alkyl, heteroaryl-C_{1-6}-alkyl, nitro, arylamino, heteroarylamino, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, C_{1-6}-alkylsulfonyl, sulfonylamino, arylthio, heteroarylthio, aryloxy, acylamino, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethoxy or trifluoromethyl,

$-NR^{13}R^{14}$, in which R^{13} and R^{14} are both phenyl, which phenyl groups are joined with a C_{1-4}-alkylene group to form a tricyclic ring system,

$-CHR^{13}R^{14}$, in which R^{13} is C_{1-6}-alkyl or phenyl, and R^{14} is phenyl, or R^{13} and R^{14} are both C_{1-6}-alkyl which are joined with C_{1-4}-alkylene linkers to form a polycarbocyclic ring system, or

$-CR^{13}R^{14}R^{15}$, in which R^{13}, R^{14} and R^{15} are C_{1-6}-alkyl which are joined with C_{1-4}-alkylene linkers to form a polycarbocyclic ring system,

wherein

heteroaryl is a 3 to 7 membered monocyclic or a 9 to 14 membered bi- or tricyclic aromatic system containing one or more heteroatoms selected from N, O or S, which is optionally partially or fully hydrogenated;

heteroarylamino is a radical wherein a -(NH)- group is linked to a heteroaryl group;

heteroaroyl is a radical wherein a -(C=O)- group is linked to a heteroaryl group;

provided that

when X is -CS-, R^1= hydrogen, the group -Y-A-Z must not start with the radical -NH-;

when X is -CO-, the group -Y-A-Z starts with the radical -NH-, R^1= hydrogen, the remainder of the group -Y-A-Z must not be unsubstituted or C_{1-6}-alkoxy substituted phenyl, unsubstituted C_{3-8}-cycloalkyl or unsubstituted C_{1-6}-alkyl;

when X is –CO-, Y is –O-, A is $-CH_2-$, Z is phenyl, $R^1=R^2=R^4=R^5=R^6$=hydrogen, m=n=p=0 and q=1, R^3 must not be hydrogen, ethyl, isopropyl or phenyl;

or any optical or geometric isomer or tautomeric form thereof or a pharmaceutically acceptable salt thereof.

103. (previously added) A compound of claim 102, wherein R^1 = hydrogen.

104. (previously added) A compound of claim 102, wherein X is -C(=O)-.

105. (previously added) A compound of claim 102, wherein A is a valence bond, methylene, ethylene or propylene.

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106. (amended) A compound of claim 102, wherein Z is ~~$-R^{13}$~~, $-NR^{13}R^{14}$, $-CHR^{13}R^{14}$ or $-CR^{13}R^{14}R^{15}$.

107. (amended) A compound of claim 102, wherein Z is C_{1-6}-alkyl, ~~C_{3-15}-cycloalkyl,~~ C_{3-15}-cycloalkenyl which are optionally substituted with C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, aryl-C_{1-6}-alkyl, heteroaryl-C_{1-6}-alkyl, nitro, arylamino, heteroarylamino, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, C_{1-6}-alkylsulfonyl, sulfonylamino, arylthio, heteroarylthio, aryloxy, acylamino, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethoxy or trifluoromethyl,

Claims 108 and 109 is cancelled.

110. (previously added) A compound of claim 102, wherein Z is $-NR^{13}R^{14}$, in which R^{13} and R^{14} are both phenyl, which phenyl groups are joined with a C_{1-4}-alkylene group to form a tricyclic ring system.

111. (previously added) A compound of claim 102, wherein Z is $-CHR^{13}R^{14}$, in which R^{13} is C_{1-6}-alkyl or phenyl and R^{14} is phenyl, or R^{13} and R^{14} are both C_{1-6}-alkyl which are joined with C_{1-4}-alkylene linkers to form a polycarbocyclic ring system.

112. (previously added) A compound of claim 102, wherein Z is $-CR^{13}R^{14}R^{15}$, in which R^{13}, R^{14} and R^{15} are C_{1-6}-alkyl which are joined with C_{1-4}-alkylene linkers to form a polycarbocyclic ring system.

Claim 113 is cancelled.

114. (previously added) A compound of claim 102, wherein R^3 and R^4 are both hydrogen or are both C_{1-6}-alkyl, or R^3 and R^4, together with the carbon atom to which they are connected, form a C_{3-8}-cycloalkyl ring, or one of R^3 and R^4 is hydrogen while the other is C_{3-8}-cycloalkyl substituted C_{1-6}-alkyl.

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115. (previously added) A compound of claim 102, wherein R^3 and R^4, are hydrogen.

Claims 116-120 is cancelled.

121. (amended) A compound of claim 102, wherein Z is C_{1-6}-alkyl, cyclopentyl, cyclohexyl, cyclohexenyl, oxazolyl, which are optionally substituted with one to three substituents selected from the group consisting of C_{1-6}-alkyl, C_{1-6}-alkoxy, halogen, phenyl, di(C_{1-6}-alkyl)amino, C_{3-8}-cyclopropanecarbonyl, trifluoromethoxy and trifluoromethyl~~substituted with C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, aryl C_{1-6}-alkyl, heteroaryl C_{1-6}-alkyl, nitro, arylamino, heteroarylamino, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, C_{1-6}-alkylsulfonyl, sulfonylamino, arylthio, heteroarylthio, aryloxy, acylamino, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethoxy or trifluoromethyl~~.

122. (amended) A compound of claim 102, wherein Z is cyclohexyl which is optionally substituted with C_{1-6}-alkyl, C_{1-6}-alkoxy, halogen, phenyl, di(C_{1-6}-alkyl)amino, C_{3-8}-cyclopropanecarbonyl, trifluoromethoxy and trifluoromethyl~~C_{1-6}-alkyl, C_{1-6}-alkoxy, C_{1-6}-alkylthio, aryl C_{1-6}-alkyl, heteroaryl C_{1-6}-alkyl, nitro, arylamino, heteroarylamino, aroyl, heteroaroyl, arylsulfonyl, heteroarylsulfonyl, C_{1-6}-alkylsulfonyl, sulfonylamino, arylthio, heteroarylthio, aryloxy, acylamino, hydroxy, amino, C_{1-6}-alkylamino, di(C_{1-6}-alkyl)amino, halogen, cyano, trifluoromethoxy or trifluoromethyl~~.

Claim 123 is cancelled.

124. (previously added) A composition comprising, as an active ingredient, an effective amount of at least one compound of claim 102, together with one or more pharmaceutically acceptable carriers or diluents.

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125. (previously added) The composition of claim 124 in unit dosage form, comprising from about 0.05 mg to about 1000 mg of the compound.

126. (previously added) The composition of claim 124 in unit dosage form, comprising from about 0.1 mg to about 500 mg of the compound.

127. (previously added) The composition of claim 124 in unit dosage form, comprising from about 0.5 mg to about 200 mg of the compound.

128. (previously added) A method of treating overweight or obesity comprising administering to a subject in need thereof a composition of claim 124.

129. (amended) A method of treating ~~disorders and diseases related to~~ overweight or obesity comprising administering to a subject in need thereof ~~a composition of claim 124~~the compound of claim 102.

130. (previously added) The compound of claim 102, wherein heteroaryl is selected from furyl, thienyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, isoxazolyl, isothiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, pyranyl, pyridyl, pyridazinyl, pyrimidinyl, pyrazinyl, 1,2,3-triazinyl, 1,2,4-triazinyl, 1,3,5-triazinyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, tetrazolyl, thiadiazinyl, indolyl, isoindolyl, benzofuryl, benzothienyl, benzothiophenyl, indazolyl, benzimidazolyl, benzthiazolyl,

benzisothiazolyl, benzisoxazolyl, purinyl, quinazolinyl, quinolizinyl, quinolinyl, isoquinolinyl, quinoxalinyl, naphthyridinyl, pteridinyl, carbazolyl, azepinyl, diazepinyl, acridinyl, pyrrolinyl, pyrazolinyl, indolinyl, pyrrolidinyl, piperidinyl, piperazinyl, azepinyl, diazepinyl, morpholinyl, thiomorpholinyl, oxazolidinyl, oxazolinyl, oxazepinyl, aziridinyl and tetrahydrofuranyl.

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131. (previously added) The compound of claim 102, wherein heteroaroyl is selected from furoyl, thienylcarbonyl, pyridoyl, oxazolylcarbonyl, benzofurylcarbonyl, benzimidazolylcarbonyl, pyrrolinylcarbonyl, azepinylcarbonyl, pyrrolylcarbonyl, thiazolylcarbonyl, imidazolylcarbonyl, isoxazolylcarbonyl, isothiazolylcarbonyl, 1,2,3-triazolylcarbonyl, 1,2,4-triazolylcarbonyl, pyranylcarbonyl, pyridazinylcarbonyl, pyrimidinylcarbonyl, pyrazinylcarbonyl, 1,2,3-triazinylcarbonyl, 1,2,4-triazinylcarbonyl, 1,3,5-triazinylcarbonyl, 1,2,3-oxadiazolylcarbonyl, 1,2,4-oxadiazolylcarbonyl, 1,2,5-oxadiazolylcarbonyl, 1,2,3-thiadiazolylcarbonyl, 1,2,4-thiadiazolylcarbonyl, 1,2,5-thiadiazolylcarbonyl, 1,3,4-thiadiazolylcarbonyl, tetrazolylcarbonyl, thiadiazinylcarbonyl, indolylcarbonyl, isoindolylcarbonyl, benzothienylcarbonyl, benzothiophenylcarbonyl, indazolylcarbonyl, benzthiazolylcarbonyl, benzisothiazolylcarbonyl, benzisoxazolylcarbonyl, purinylcarbonyl, quinazolinylcarbonyl, quinolizinylcarbonyl, quinolinylcarbonyl, isoquinolinylcarbonyl, quinoxalinylcarbonyl, naphthyridinylcarbonyl, pteridinylcarbonyl, carbazolylcarbonyl, azepinylcarbonyl, diazepinylcarbonyl, acridinylcarbonyl, pyrrolinylcarbonyl, pyrazolinylcarbonyl, indolinylcarbonyl, piperidinylcarbonyl, piperazinylcarbonyl, diazepinylcarbonyl, morpholinylcarbonyl, thiomorpholinylcarbonyl, oxazolidinylcarbonyl, oxazolinylcarbonyl, oxazepinylcarbonyl, aziridinylcarbonyl and tetrahydrofuranylcarbonyl.

132. (previously added) The compound of claim 102, wherein heteroarylamino is selected from furanylamino, thienylamino, pyridylamino, oxazolylamino, benzofurylamino, benzimidazolylamino, pyrrolinylamino, azepinylamino, pyrrolylamino, thiazolylamino, imidazolylamino, isoxazolylamino, isothiazolylamino, 1,2,3-triazolylamino, 1,2,4-triazolylamino, pyranylamino, pyridazinylamino, pyrimidinylamino, pyrazinylamino, 1,2,3-triazinylamino, 1,2,4-

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triazinylamino, 1,3,5-triazinylamino, 1,2,3-oxadiazolylamino, 1,2,4-oxadiazolylamino, 1,2,5-oxadiazolylamino, 1,2,3-thiadiazolylamino, 1,2,4-thiadiazolylamino, 1,2,5-thiadiazolylamino, 1,3,4-thiadiazolylamino, tetrazolylamino, thiadiazinylamino, indolylamino, isoindolylamino, benzothienylamino, benzothiophenylamino, indazolylamino, benzthiazolylamino, benzisothiazolylamino, benzisoxazolylamino, purinylamino, quinazolinylamino, quinolizinylamino, quinolinylamino, isoquinolinylamino, quinoxalinylamino, naphthyridinylamino, pteridinylamino, carbazolylamino, azepinylamino, diazepinylamino, acridinylamino, pyrazolinylamino, indolinylamino, pyrrolidinylamino, piperidinylamino, piperazinylamino, diazepinylamino, morpholinylamino, thiomorpholinylamino, oxazolidinylamino, oxazolinylamino, oxazepinylamino, aziridinylamino and tetrahydrofuranylamino.